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 Art Unit: \_\_\_\_\_ Phone Number \_\_\_\_\_ Serial Number: \_\_\_\_\_  
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Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

*\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

US 5,920,530

US 6,504,946


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**Patent Number :** US5920530 A 19990706 [US5920530]**Title :**

(A) Rotation control apparatus operating with a sync signal having variable intervals

**Patent Assignee :**

(A) PIONEER ELECTRONIC CORP (JP)

**Patent Assignee :**

Pioneer Electronic Corporation, Tokyo [JP]

**Inventor(s) :**

(A) YOSHIDA MASAYOSHI (JP); SUZUKI TOSHIO (JP); KURODA KAZUO (JP)

**Application Nbr :**

US19199998 19981116 [1998US-0191999]

**Filing Details :**

Cont. of US816138 19970312 [1997US-0816138]

Continuation of: US5875763

**Priority Details :**

US19199998 19981116 [1998US-0191999]

JP8457896 19960313 [1996JP-0084578]

US81613897 19970312 [1997US-0816138]

**Intl Patent Class :**

(A) G11B-007/00

**EPO ECLA Class :**

G11B-007/0045

G11B-019/247

G11B-019/28

G11B-027/19

G11B-027/30C

**US Patent Class :**

ORIGINAL (O) : 369047320

**Document Type :**

Basic

**Citations :**

US4761775; US4908810; US5093820; US5095475; US5420842; US5432766; US5708649; US5764610

**Publication Stage :**

(A) United States patent

**Abstract :**

A rotation control apparatus which can maintain an accurate rotating state even in a high density optical disk (DVD) having a structure such that parts of the sync signal are recorded at an interval different from that of the other sync signal parts. The apparatus has: a unit period signal generator for generating a period signal of a unit period; a pre-pit detector for detecting a pre-pit from the DVD; a phase difference detector for detecting a phase difference between the detection timing of the pre-pit and the unit period signal; and a holding circuit for holding the phase difference detected. The rotation of the DVD is

controlled on the basis of the phase difference held at the holding circuit.

Search statement 3

1 of 1 DOCUMENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5920530

[Link to Claims Section](#)

July 6, 1999

Rotation control apparatus operating with a sync signal having variable intervals

**INVENTOR:** Kuroda, Kazuo - Tokorozawa, Japan (JP); Yoshida, Masayoshi - Tokorozawa, Japan (JP); Suzuki, Toshio - Tokorozawa, Japan (JP)

**APPL-NO:** 191999 (09)

**FILED-DATE:** November 16, 1998

**GRANTED-DATE:** July 6, 1999

**ENGLISH-ABST:**

A rotation control apparatus which can maintain an accurate rotating state even in a high density optical disk (DVD) having a structure such that parts of the sync signal are recorded at an interval different from that of the other sync signal parts. The apparatus has: a unit period signal generator for generating a period signal of a unit period; a pre-pit detector for detecting a pre-pit from the DVD; a phase difference detector for detecting a phase difference between the detection timing of the pre-pit and the unit period signal; and a holding circuit for holding the phase difference detected. The rotation of the DVD is controlled on the basis of the phase difference held at the holding circuit.

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